| Index of Claims | Application/Control No. | Applicant(s)/Patent under Reexamination |
|-----------------|-------------------------|---|
|                 | 10/017,893              | CADIENTE ET AL.                         |
|                 | Examiner                | Art Unit                                |
|                 | Harry A. Grosso         | 3727                                    |

|  |   |          |        |          |          |   |     |        | Examiner   |            |               |                 |          |          |        |        |            |        | Ar       |          | ın      |       |          |           |        |         |              |                |                    |          |   |   |
|--|---|----------|--------|----------|----------|---|-----|--------|------------|------------|---------------|-----------------|----------|----------|--------|--------|------------|--------|----------|----------|---------|-------|----------|-----------|--------|---------|--------------|----------------|--------------------|----------|---|---|
|  | BEST AND FROM REND AND INVESTIGATE FOR THE PARTY. |          |        |          |          |   |     |        |            |            |               | Harry A. Grosso |          |          |        |        |            |        |          |          |         |       | 37       | <u>27</u> |        |         |              | 丄              |                    |          |   |   |
| 1  |   | γ        |        |          |          | 1 |     |        |            |            |               |                 |          |          |        | ſ      | <b>-</b> T |        |          |          |         |       | : 1      |           |        |         |              |                | _                  | ı        |   |   |
|  | 1   | Rejected |        |          |          |   |     | (1     | hrou<br>Ca | al)        |               |                 | N Non-El |          |        |        | ec1        | ed     |          | A        |         | Аp    | pea      | al        |        |         |              |                |                    |          |   |   |
|  | 11  | A        | llo    | we       | d        |   |     | ٠      |            | Restricted |               |                 |          |          |        |        | 1          | In     | te       | fer      | ference |       |          | 0         | Object |         |              | ed             |                    |          |   |   |
|  |   |          |        |          |          |   |     | Ш      |            |            |               |                 | _        | _        | لــ    | ι      |            |        |          |          | _       |       |          | ш         |        |         | -            |                | i                  |          |   |   |
| n  |   | `        |        |          | ale      | 3 | ••• | _      |            | Cla        | im            |                 | `        |          | (      | ate    | ,          |        |          |          |         | Claim |          |           | _      |         | Dat          | 6_             |                    |          |   |   |
| =  |   | ত্ব      | 130    |          |          |   |     |        |            |            | ]             | ,               | ्र       | 7        |        | П      | П          | $\neg$ |          | ٦        |         |       | =        |           | Т      | Т       | Т            | Г              |                    |          | П |   |
| Original                                 | 7/21/05   | 123/2    | 3/14/6 |          |          |   |     |        |            | Final      | Ortginal      | 7/21/05         | 30/e7/k1 | 0/15/    | -      |        |            |        |          |          |         | Finat | Orfginal |           |        |         |              |                |                    |          |   | _ |
| -  |   | 1        |        | -        | _        | Н | -   | H      | $\vdash$   | $\vdash$   | 64-           | 2               | 7        | ""       | -      |        | 4          | -+     | -        | $\dashv$ |         |       | 101      | -         | +      | ┿       | ╀            | ⊢              | Н                  | Н        | Н |   |
| 中国 中 | 2 2   | ⊢        | Н      | $\dashv$ | $\dashv$ | Н | H   | Н      | $\dashv$   | $\vdash$   | 63            | -               | Н        | $\dashv$ | -      |        | -          | +      | $\dashv$ | ᅱ        |         |       | 102      | -         | -+-    | ╁       | ╁            | ┢              | $\vdash$           | -        | Н |   |
| 2  | 7   | $\vdash$ | Н      | $\dashv$ |          | Н | Н   | Н      | $\vdash$   |            | -63           | _               |          | -        | -      | ᅥ      | ᅥ          | -      | ┪        | ᅱ        |         |       | 103      | $\vdash$  | ┪      | ╅       | ╁            | ╁              | $\vdash$           |          |   |   |
| 4  | Z   | 1        | Н      |          | $\dashv$ | - | -   |        | $\vdash$   | 14         | 54            | V               | 7        | Ξ        |        | 7      | ┪          | 7      |          | ᅱ        |         |       | 104      |           | +      | ╅       | +            | †              | 1                  |          |   |   |
| 3  | N   | $\vdash$ | М      |          |          |   |     |        | $\Box$     | 1          | 55            | O               |          |          |        | 7      | 7          | -      | _        | ┪        |         |       | 105      |           | 7      | 1       | 1            | 1              | П                  | П        | П |   |
| 6-                                       | N   |          | М      | _        | -        |   |     |        | П          |            | <b>\$6</b>    |                 |          | -        | $\neg$ | _      | ┪          | $\neg$ | ╗        | ٦        |         |       | 106      | $\Box$    | $\neg$ | 7       | 1            | T              | П                  | П        |   |   |
| 7  | 2   | Т        | П      |          |          |   |     |        |            | 15         | 57            | >               | V        | =        |        | $\neg$ |            | $\neg$ | П        |          |         |       | 107      |           | Т      | Т       | Τ.           | П              |                    |          |   | • |
| 8-                                       | N   | Г        |        |          |          |   |     |        |            |            | 69            | /               |          |          |        |        |            | П      |          | $\neg$   |         |       | 108      |           | Т      | Т       | Τ            | Г              |                    |          |   |   |
| 0  | Z   |          |        |          |          |   |     |        |            |            | 39            | \               |          |          |        | $\Box$ |            |        |          |          |         |       | 109      |           |        | $\perp$ | $\perp$      | L              |                    |          |   |   |
| 8  | N   |          |        |          |          |   |     |        |            |            | <del>60</del> | Z               |          |          |        |        |            |        |          |          |         |       | 110      |           |        | $\perp$ | $\perp$      | L              |                    |          |   |   |
| +  | 2   |          |        |          |          |   |     |        |            |            | -64           | >               |          |          |        |        |            |        |          |          |         |       | 111      |           |        | I       | L            | L              |                    |          | Ц |   |
| 12                                       | Z   |          |        |          |          |   |     |        |            |            | 82            | /               |          |          |        |        |            |        |          |          | 1       |       | 112      | Ц         |        | 1       | 丄            |                | $oldsymbol{\perp}$ | Ш        |   |   |
| 13                                       | Z   |          |        |          |          |   |     |        |            |            |               | X               |          |          |        |        |            |        |          | _        |         |       | 113      | $\sqcup$  | $\bot$ | l       | 上            | 上              |                    |          | Ш |   |
| 4  | Z   |          |        |          |          |   |     |        |            |            |               | 4               | Ш        |          |        |        | _          | _      | ┙        | _        | 1       |       | 114      | Ц         |        | 1       | 1_           | <u>L</u>       | Ш                  | Ш        | Ш |   |
| <del>4</del>                             | Z   |          |        |          |          |   |     |        | Ш          | 18         | (65)          | _               | 4        | Ξ        |        | _      | _          | 4      | 4        |          | 1       |       | 115      | Щ         | 4      | 4       | 4_           | 1_             | L                  | Ш        | Ш |   |
| 4 4 4                                    | 2   |          |        |          |          |   |     |        | Ш          |            | 56            | _               |          | Ш        | Ш      | _      | _          | _      | _        | 4        |         |       | 116      | Ш         | 4      | _       | 1_           | ↓_             | ╄                  | Ш        |   | ĺ |
| 17                                       | N   |          |        |          |          |   |     | Ш      |            | 19         | 67            | 1               | V        | =        | _      |        | _          | 4      | _        | 4        |         |       | 117      | Н         | _      | 4       | 1.           | ↓_             | ┺                  |          |   | l |
| 18                                       | Z   | L        | Ш      |          |          |   | Ŀ   |        |            | 24         | <b>(69)</b>   |                 |          | =        |        |        | ᆈ          | _      |          | _        |         |       | 118      | Н         | $\bot$ | 4       | <del> </del> | ↓_             | ₩                  | Ш        | Ш | 1 |
| 19                                       | Z   | L        | Ш      |          |          | Ш | Ш   |        | Ш          |            |               |                 | _        | Ш        | $\Box$ | $\Box$ | _          | -      |          | 4        |         |       | 119      | $\vdash$  |        | 4       | ╀            | ╄-             | 4-                 | Ш        | Ш |   |
| 20-                                      | N   | L        | Ш      | Ш        |          | Щ |     | Щ      | $\sqcup$   | 20         |               | ·               | 2        | Ξ        |        | _      | _          | _      | 4        | 4        |         | ļ     | 120      | ╙         | -      | +       | 4_           | <del> </del> _ | 4                  | $\sqcup$ | Ш |   |
| 2¢<br>2↑<br>22-                          | N   | <u> </u> | Ш      |          | Ц        | Ш |     | $\Box$ | Ш          |            |               | Y               |          | Ш        |        | $\Box$ | _          | 4      | 4        | _        | •       |       | 121      | ${oxed}$  | 4      | ╀       | 4-           | ╀-             | ₩                  | Ш        | H |   |
| 55-                                      | N   | L        | Ш      |          |          |   |     | $\Box$ | Щ          |            | 22            | N               | 7        | Ш        |        | _      | 4          | 4      | 4        | 4        |         |       | 122      | Н         | -      | 4       | +            | ╂              | ₩                  | Ш        | ш |   |

|          | (3)           | N   | ╗        |   |   | 7        |          |          |          |          |             |        | 63            |          |    | $\Box$   | ┪        | ┪         | 7       | 7  | $\neg$   |               |   |             | 102 |       |          |    |          | $\neg$   | П        |          | 7        | 7        |
|----------|---------------|-----|----------|---|---|----------|----------|----------|----------|----------|-------------|--------|---------------|----------|----|----------|----------|-----------|---------|----|----------|---------------|---|-------------|-----|-------|----------|----|----------|----------|----------|----------|----------|----------|
| _        | 4             | N   | ヿ        |   |   | 7        |          |          |          |          |             |        | 63            |          |    |          | 7        | 7         |         | 7  | $\neg$   |               |   |             | 103 |       |          |    |          | ╗        | ╗        | 7        | 7        | 7        |
|          | 4             | Z   | $\neg$   |   |   | $\neg$   |          |          |          |          |             | 4      |               | >        |    | Ξ        | 7        | $\neg$    | 7       | 7  | 7        |               |   |             | 104 |       |          |    |          |          |          | 7        | $\neg$   | 7        |
|          |               | ×   | $\neg$   | ~ |   | ┪        |          | _        |          |          |             |        | 55            | O        | 0  |          | ₩        |           | ┪       | 7  | 7        |               |   |             | 105 |       |          |    |          | 7        | 7        | $\neg$   | $\neg$   | コ        |
|          |               | N   | ᅥ        | _ | _ | 7        | _        |          |          | Н        |             |        | 56            |          |    | -        | ┪        | 7         | ヿ       | ┪  | ╗        |               |   |             | 106 |       |          |    |          |          |          | ┪        | 寸        | $\neg$   |
|          | 7             | 2   | -1       | _ | М | _        | $\neg$   |          | _        |          | 17          | 7      | 57            |          | V  |          | 7        | ┪         | 7       | 7  | ╗        |               |   |             | 107 |       |          |    |          | ╗        | ᄀ        | ┪        | ┪        | ヿ        |
| $\vdash$ | 8             | ×   | ┪        | - | Н | ┪        | $\neg$   |          |          | Н        | 14          | •      | <b>€</b>      |          |    |          | 寸        | +         | -       | 7  | ᅥ        |               |   |             | 108 |       |          | _  |          | 一        | ᅥ        | 7        | -1       | $\dashv$ |
|          | 4             | Z   |          |   | Н | -1       |          |          | Н        | Н        | ⊢           | $\neg$ |               |          | М  | Н        | _        | 十         | +       | 1  | $\dashv$ |               |   | -           | 109 |       |          |    |          | ┪        | ┪        | 7        | 寸        | $\dashv$ |
|          | *             | Z   | -        |   | Н | -1       | -        | -        |          |          | <u> </u>    | -      | <del>50</del> |          |    |          | +        | _         | 7       | 7  | 一        | -             |   |             | 110 | H     |          |    |          | ~        | ~        | -        | -+       | $\dashv$ |
|          |               | Z   |          |   | Н |          | -        | -        | -        | Н        | <b> -</b> - |        | 4             | 1        | -  | -        | ┪        | -         | +       | -  | -        | -             |   |             | 111 |       | -        | ÷  | Н        | -        |          | _        | 7        | $\dashv$ |
|          | 122           | Z   | -        | - | Н |          |          |          | Н        | Н        | -           | -      | 82            | >        | -  | Н        | ┪        | ┰         | -+      | -  | ┪        |               |   |             | 112 | -     |          | -  |          | -        | -        | _        | 7        | ┪        |
|          | 13            | 2 2 | ┥        |   | Н |          | $\dashv$ |          | -        | $\vdash$ | -           |        | 8             | _        | Н  | Н        | ┰┼       | +         | ╅       | +  | ┪        | $\dashv$      |   |             | 113 | Н     | -        |    | Н        | ┪        | -        | $\dashv$ | +        | $\dashv$ |
|          | 14            | Z   | $\dashv$ | - | Н | -        | $\dashv$ | $\vdash$ |          |          | -           | -      | <b>8</b>      |          | Н  | $\vdash$ | ⇥        | -+        | +       | ╌┼ | ᅥ        | $\vdash$      |   | $\vdash$    | 114 | Н     | $\vdash$ |    | Н        | ┪        | ┪        | -        | +        | $\dashv$ |
| _        |               |     |          | _ | Н | -1       | $\dashv$ | $\vdash$ | Н        | Н        | l           | 7      | <u> </u>      | Υ.       |    | _        | +        | ┰         | ╅       | -  | -        | $\overline{}$ |   | $\vdash$    | 115 | Н     |          |    |          | -        |          | $\dashv$ | ↤        | $\dashv$ |
| $\vdash$ | 45            | 2   | -        |   | Н | -1       | -        | -        | $\vdash$ | Н        | μ           | •      | 3             |          | 1  | -        | -+       | +         | ┽       | ┰  | -        |               |   | -           | 116 | Н     | Н        | _  | Н        | ᅥ        | -        | -        | +        | $\dashv$ |
| <u> </u> | 46            | 2   | $\dashv$ |   | Н |          | -        | -        | $\vdash$ | Н        | h           | 9      | 67            | 1        |    | 7        | ┪        | -+        | +       |    |          | -             |   |             | 117 | H     | Н        | -  | -        | -        | -        | $\dashv$ | $\dashv$ |          |
| L        | 17            | Z   |          |   | Н |          |          | -        | $\vdash$ |          |             |        |               |          |    |          | -        | -         | +       | -  |          | -             |   |             | 118 | Н     |          |    |          | -        | $\dashv$ | -        |          |          |
| ļ        | 18            |     |          | _ | Н |          |          | -        | -4       |          | 12          | 7      | <u>(60)</u>   | 1        | 1  | -        |          | +         | -+      |    | -        | $\vdash$      | l |             | 119 | Н     | Н        | -  | $\vdash$ | $\dashv$ | ┥        |          | ┪        | $\dashv$ |
| ļ        |               | 2   |          | _ | Н | $\dashv$ | -        |          |          | Н        | -           | -      | 8             |          |    |          | -        | $\dashv$  | +       | -  |          | Н             |   | <b> </b>    |     | -     |          | _  | Н        | ÷۱       |          |          | -        | $\dashv$ |
| ļ        |               | 2   |          | _ | Н | -        | -        |          | Н        | Н        | شا          | 20     |               |          | V, | =        | -        | +         | +       | ┵  | 1        | -             |   | <b> </b>    | 120 |       |          |    | $\vdash$ | -        |          | -        | -        | $\dashv$ |
|          | -21           | И   | ᅼ        | _ | Ш | _        |          |          |          | Н        | <b> </b> -  | _      | *             | Y        |    | Ш        | -        |           | -+      | 4  |          | -             | 1 | $igwdate{}$ | 121 | Н     | Н        | _  | Н        | -        |          |          | -+       |          |
| <u></u>  | <b>82</b> -   | Z   |          |   | Ш | _        |          |          | Ш        | Щ        | <u> </u>    | _      | 72            | Ÿ.       | 2  |          | -        | -         | 4       | 4  | -        |               | l |             | 122 | Н     |          |    |          | -        |          | -        | -        |          |
| L        | 23            | Z   |          |   | Ш | _        | _        |          |          |          | <u> </u>    |        |               | 0        | 0, |          |          | -4        | 4       | -  | -4       | _             |   | ļ           | 123 | -     | -        |    | Н        |          |          |          | -        | $\dashv$ |
|          | 24            | N   |          |   | Ш |          |          |          |          |          |             | Щ      | 74            |          | >  |          | -        | 4         | -4      |    |          | -             | ł |             | 124 | Ш     | Ш        |    |          | _        |          |          | -        | _        |
|          | 26            | N   |          |   | Ш | _        |          |          |          | Ш        | اع          | ユ      | 75            | _        | V  | Ξ        | _        | 4         | -       | _  | _        |               | ı |             | 125 | Н     | _        | Ŀ  | Ш        | _        | _        |          | -        | -        |
|          |               | N   | Щ        |   | Ц | _        |          |          |          |          | <u> </u>    |        | 76            |          |    |          | 4        | 4         | 4       | -4 | _        |               | ı |             | 126 | Ш     |          | _  | _        | $\dashv$ |          | $\dashv$ | 4        | _        |
| نـــــا  | 27            | N   |          |   | Ш | _        |          |          |          | Ŀ        | <u> </u>    | _      | 77            | ~        |    | Ш        | 4        | 4         | 4       | _  | _        | Ш             | l | <u> </u>    | 127 | Щ     | Ш        |    | Ш        |          | _        |          | -4       |          |
|          | 2             | N   |          |   |   |          |          |          |          |          | 2           | .3     | 78            | 4        | V  | 듸        | _1       | _         | _       | 4  | _        | Щ             | l |             | 128 |       |          |    | Ш        |          | _        | $\dashv$ | _        | _        |
|          | ф             | 7   |          |   |   |          |          |          |          |          | · L         |        | 79            | 4        |    |          | _        | _         | _       | _  | _        | Щ             | Į |             | 129 |       |          |    | Щ        |          | _        | Ш        | ᆚ        | _        |
|          | \$            | Z   |          |   |   |          |          |          |          |          |             |        | -88           | 2        |    |          | _        | _         | _       | _  | _        |               | l |             | 130 |       |          | _  |          | _        | _        |          | _        |          |
|          | 3#            | 2   |          |   |   |          |          |          |          |          |             |        | 84-           |          |    |          | _        | _         |         | _  | _        |               |   |             | 131 |       |          |    |          |          | _        |          | _        | _        |
|          | 35            | N   |          |   |   |          |          |          |          |          |             |        |               | 0        |    | Ш        | _        | _         | 4       | _  | _        |               | ı |             | 132 | Ш     | Ш        |    | Ш        | Ц        | _        | Ш        | _        | _        |
|          | <del>33</del> | Z   |          |   |   |          |          |          |          |          | _3          |        | 83            |          | == | $\equiv$ | _        | _         | _       | _  | _        | Ш             | l |             | 133 | Ш     |          |    | Ш        |          |          |          | _        | _        |
|          | \$            | Z   |          |   |   |          |          |          |          |          | 1           | 6      | 84            | ~        | 1  | 11       |          | _         | _       | _  |          |               |   |             | 134 | Щ     |          |    | Ш        |          |          | Ц        | _        | _        |
|          | 35            | N   |          |   |   |          |          |          |          |          |             | 7      | 85            | ~        |    | =        | $\sqcup$ |           |         |    |          |               |   |             | 135 |       |          | L  |          |          |          |          | _        |          |
|          | 39            | N   |          |   |   |          |          |          |          |          |             | 4      | 86            |          | 2  | Ξ        |          |           |         |    |          |               |   |             | 138 | Ш     |          |    | Ш        |          |          |          | _        |          |
|          | 37            | Z   |          |   |   |          |          |          |          |          |             |        | 87            | <u>L</u> | =  | Ξ        |          |           |         |    |          |               |   |             | 137 | Ц     |          |    |          |          |          |          | _        | _        |
| 7        | (38)          | 8   | Ξ        | F |   |          |          |          |          |          |             | 6      | 88            |          | =  | Ξ        |          |           | $\perp$ |    |          |               |   |             | 138 | oxdot |          | L_ |          |          |          |          | $\Box$   |          |
| 7        | 337           |     |          | = |   |          |          |          |          |          |             |        | 89            |          |    |          |          |           |         | _  | $\Box$   |               |   |             | 139 |       |          |    |          |          | $\Box$   |          | $\Box$   |          |
|          | *             | ٥   | 0        |   |   |          |          |          |          |          |             |        | 90            |          |    |          |          |           |         |    |          |               |   |             | 140 | Ŀ     |          |    | Ш        |          |          |          | Ц        | _        |
| 8        | 41            |     |          | Ξ |   |          |          |          |          |          |             |        | 91            |          |    |          |          | $\Box$    |         |    |          |               |   |             | 141 |       |          |    |          |          |          |          |          |          |
| 9        | 42            | 7   | V        | = |   |          |          |          |          |          |             |        | 92            |          |    |          |          |           |         |    |          |               |   |             | 142 |       |          |    |          |          |          | Ш        |          |          |
| 10       |               | 1   | V        | Ξ |   |          |          |          |          |          |             |        | 93            |          |    |          |          |           |         |    |          |               |   |             | 143 |       |          |    |          |          |          |          |          |          |
|          | 44            | Z   |          |   |   |          |          |          |          |          |             |        | 94            |          |    |          |          | $\exists$ | $\Box$  |    |          |               |   |             | 144 |       |          |    |          |          |          |          |          |          |
| 11       | 45            | 1   | 1        | Ξ |   |          |          |          |          |          |             |        | 95            |          |    |          |          |           |         |    |          |               | ] |             | 145 |       |          |    |          |          |          |          |          |          |
|          | 46            | 7   |          |   |   |          |          |          |          |          |             |        | 96            | L        |    |          |          |           | $\Box$  |    |          |               | ] |             | 146 |       |          |    |          |          |          |          |          |          |
| 12       | 47            | 1   | 7        | = |   |          |          |          |          |          |             |        | 97            | Ŀ        |    |          |          |           |         |    |          |               | 1 |             | 147 |       |          |    |          |          |          |          |          |          |
| 13       | 48            | ~   | 7        | _ |   |          |          |          |          |          |             |        | 98            |          |    |          |          | $\Box$    |         |    |          | ·             | 1 |             | 148 |       |          |    |          |          |          |          |          |          |
|          | 49            |     |          | Τ |   |          |          |          |          |          |             |        | 99            |          |    |          |          | 丁         |         |    |          |               |   |             | 149 |       |          |    |          |          |          |          |          |          |
|          |               |     |          |   |   |          |          |          |          |          |             |        |               |          |    |          |          |           |         |    |          |               |   |             |     |       |          |    |          |          |          |          |          |          |